

Alumina Round, shallow, straight sides Crucible

Formula: Al₂O₃

Percentage Purity: 99.8%

Capacity: 22ml

Outside Diameter: 52mm

Height: 14mm

CAS Number: 1344-28-1

UOM Code: 970-265-12

SKU: 1000022718-group

Product Code: AL60-CB-000115

Material Properties for Ceramics

Chemical Resistance

Element	Value
Acids - concentrated	Good
Acids - dilute	Good
Alkalis	Good
Halogens	Good
Metals	Good

Electrical Properties

Element	Value
Dielectric constant	9-10.1
Dielectric strength(kV mm ⁻¹)	Oct-35
Volume resistivity(Ohmcm)	>10 ¹² @25

Physical Properties

Element	Value
Apparent porosity(%)	0
Water absorption - saturation(%)	0
Density(gcm ⁻³)	3.9

Thermal Properties

Element	Value
Melting point(C)	2100
Upper continuous use temperature(C)	1700
Specific heat(J K ⁻¹ kg ⁻¹)	850-900@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	26-35@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	8@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	300-400
Hardness - Knoop(kgf mm ⁻²)	2100
Hardness - Vickers(kgf mm ⁻²)	1500-1650
Shear strength(MPa)	330
Tensile strength(MPa)	260-300

Pultrusions

Element	Value
Compressive strength(MPa)	2200-2600